

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY SOUTHWEST REGIONAL OFFICE

Douglas W. Domenech Secretary of Natural Resources 355-A Deadmore Street, Abingdon, Virginia 24210 (276) 676-4800 Fax: (276) 676-4899 www.deq.virginia.gov

David K. Paylor Director

Allen J. Newman, P.E. Regional Director

April 16, 2013

Mr. John M. McManus American Electric Power 1 Riverside Plaza Columbus, Ohio 43215

> Location: Russell County, VA Registration No: 10236 Facility ID No: 51-167-0003

Dear Mr. McManus:

Attached is a modified Phase II Acid Rain permit to operate the Appalachian Power Clinch River Plant in accordance with the provisions of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. This modification incorporates the revised Phase II NO_X Compliance and Averaging Plans for calendar years 2013 through 2017. The attached permit will expire on December 31, 2014. A Phase II Acid Rain permit renewal application is to be submitted no later than July 1, 2014.

The permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and civil charges. Please read all permit conditions carefully.

In the course of evaluating the application and arriving at a final decision to approve the permit, the Department of Environmental Quality (DEQ) solicited written public comments by placing a newspaper advertisement in the *Lebanon News* on [DATE], 2013. The public comment period (provided for in 9 VAC 5-80-670 A) expired on [DATE+30], 2013.

This permit approval to operate shall not relieve Appalachian Power Company (dba American Electric Power) of the responsibility to comply with any other local, state and federal regulations.

9 VAC 5-170-200 of the Board's Regulations provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this case decision notice was mailed or delivered to you. Please consult that and other relevant regulations for additional requirements for such requests.

Mr. John M. McManus April 16, 2013 Page 2

Additionally, as provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal to court by filing a Notice of Appeal with:

David K. Paylor, Director Department of Environmental Quality P.O. Box 1105 Richmond, Virginia 23218

In the event that you receive this permit by mail, three days are added to the period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for additional information including filing dates and the required content of the Notice of Appeal.

If you have any questions concerning this permit, please contact Rob Feagins at (276) 676-4835.

Sincerely,

Allen J. Newman, P.E. Regional Director

AJN/TMD/td/P10236T4-13.doc

Attachment: Permit

cc: Director, OPATS (electronic file submission)

Manager, Data Analysis (electronic file submission)

Director, Air, Radiation and Toxics Division, U.S. EPA, Region 3

Regional Acid Rain Program Coordinator, Air, Radiation and Toxics Division,

U.S. EPA Region 3



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David K. Paylor Director

Allen J. Newman, P.E. Regional Director

Registration No: 10236

Facility ID No: 51-167-0003

ORIS Code: 3775

PHASE II ACID RAIN PERMIT

This permit replaces your Phase II Acid Rain permit dated May 8, 2009.

Issued To:

Douglas W. Domenech

Secretary of Natural Resources

Clinch River Plant

Operated By:

Appalachian Power Company

dba, American Electric Power (AEP)

Location:

Carbo, Russell County, Virginia

Effective Date:

January 1, 2010 through December 31, 2014

Acid Rain Permit Contents

- 1) Statement of Basis
- 2) SO₂ allowances allocated under this permit and NO_X requirements for each affected unit.
- 3) Additional requirements or conditions, and any comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process.
- 4) The permit application submitted for this source, including the attached NO_X Compliance Plan and NO_X Averaging Plan. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.

Permit Approval Date:

May 8, 2009

Significant Modification Dates:

March 15, 2012 and April 16, 2013

Allen J. Newman, P.E. Regional Director

Permit consists of 6 pages, including the attached permit application, NO_X Compliance Plan, and NO_X Averaging Plan.

Appalachian Power Company (dba American Electric Power) Clinch River Plant Registration No. 10236 ORIS Code 3775 April 16, 2013 Page 2 of 6

1) Statement of Basis:

Statutory and Regulatory Authorities: In accordance with the Air Pollution Control Law of Virginia §10.1-1308 and §10.1-1322, the Environmental Protection Agency (EPA) Final Full Approval of the Operating Permits Program (Titles IV and V) published in the Federal Register December 4, 2001, Volume 66, Number 233, Rules and Regulations, Pages 62961-62967 and effective November 30, 2001, and Title 40, the Code of Federal Regulations §§72.1 through 76.16, the Commonwealth of Virginia Department of Environmental Quality issues this permit pursuant to 9 VAC 5 Chapter 80, Article 3 of the Virginia Regulations for the Control and Abatement of Air Pollution (Acid Rain Operating Permits).

Appalachian Power Company (dba American Electric Power) Clinch River Plant Registration No. 10236 ORIS Code 3775 April 16, 2013 Page 3 of 6

2) SO₂ Allowance Allocations and NOx Requirements for affected units. (9 VAC 5-80-490 A.4):

Unit 1								
Year	2010	2011	2012	2013	2014			
SO₂ Allowances under Table 2, 40 CFR 73.10 (tons)	5302	5302	5302	5302	5302			
NO _x Limit	Environmental effective from continuous emissions shall emission limitate. Under the plan, the units in the average NO _X enduring the same limitations under units, the applications designated representence (as seplan, then this unalternative continuous explanded in accordance where the besignates inclusive more units inclusive modifications on the addition to the	ant to 40 CFR part 76.11, the Commonwealth of Virginia Department of inmental Quality approves a NO _X emissions averaging plan for this unit, we from calendar years 2012 through 2016. Under the plan, this unit's tons shall not exceed the annual average alternative contemporaneous on limitation of 0.80 lb/mmBtu . The plan, the actual Btu-weighted annual average NO _X emission rate for the plan shall be less than or equal to the Btu-weighted annual en NO _X emission rate for the same units had they each been operated, the same period of time, in compliance with the applicable emission one under 40 CFR §§76.5, 76.6, or 76.7, except that for any early elect the applicable emission limitations shall be under 40 CFR §76.7. If the lated representative demonstrates that the requirement of the prior ce (as set forth in 40 CFR §76.11(d)(1)(ii)(A)) is met for a year under the this unit shall be deemed to be in compliance for that year with its tive contemporaneous annual emission limitation. Fordance with 40 CFR §72.40(b)(2), approval of the averaging plan shall a until every state and local permitting authority with jurisdiction over on nits included in the averaging plan has approved the plan with the same actions or conditions, if any.						

Appalachian Power Company (dba American Electric Power) Clinch River Plant Registration No. 10236 ORIS Code 3775 April 16, 2013 Page 4 of 6

Unit 2									
Year	2010	2011	2012	2013	2014				
SO ₂ Allowances under Table 2 of 40 CFR 73.10 (tons)	6123	6123	6123	6123	6123				
NO _X Limit	Environmental effective from contemporaneous contemporaneous Under the plan, the units in the average NO _X elduring the same limitations under units, the application designated representence (as seplan, then this calternative contemporary in accordance where the contemporary is alternative contemporary is a same modification of the contemporary is a same modification.	at to 40 CFR part 76.11, the Commonwealth of Virginia Department of mental Quality approves a NO _X emissions averaging plan for this unit, a from calendar years 2012 through 2016. Under the plan, this unit's issions shall not exceed the annual average alternative poraneous emission limitation of 0.80 lb/mmBtu . The plan, the actual Btu-weighted annual average NO _X emission rate for it in the plan shall be less than or equal to the Btu-weighted annual NO _X emission rate for the same units had they each been operated, he same period of time, in compliance with the applicable emission has under 40 CFR §§76.5, 76.6, or 76.7, except that for any early electic explicable emission limitations shall be under 40 CFR §76.7. If the ted representative demonstrates that the requirement of the prior (as set forth in 40 CFR §76.11(d)(1)(ii)(A)) is met for a year under the enthis unit shall be deemed to be in compliance for that year with its ever contemporaneous annual emission limitation. In the deaction of the averaging plan shall and until every state and local permitting authority with jurisdiction over nore units included in the averaging plan has approved the plan with the odifications or conditions, if any.							

Appalachian Power Company (dba American Electric Power) Clinch River Plant Registration No. 10236 ORIS Code 3775 April 16, 2013 Page 5 of 6

Unit 3									
Year	2010	2011	2012	2013	2014				
SO₂ Allowances under Table 2 of 40 CFR 73.10 (tons)	5661	5661 5661		5661	5661				
NO _X Limit	Environmental effective from complete emissions shall emission limitate. Under the plan, the units in the average NO _X enduring the same limitations under units, the applications designated representence (as seplan, then this unalternative contents in accordance where units inclumedifications or accordance of the contents in the co	to 40 CFR part 76.11, the Commonwealth of Virginia Department of tental Quality approves a NO _X emissions averaging plan for this unit, from calendar years 2012 through 2016. Under the plan, this unit's Not shall not exceed the annual average alternative contemporaneous limitation of 0.80 lb/mmBtu . Be plan, the actual Btu-weighted annual average NO _X emission rate for in the plan shall be less than or equal to the Btu-weighted annual NO _X emission rate for the same units had they each been operated, as same period of time, in compliance with the applicable emission is under 40 CFR §§76.5, 76.6, or 76.7, except that for any early electical applicable emission limitations shall be under 40 CFR §76.7. If the extra representative demonstrates that the requirement of the prior (as set forth in 40 CFR §76.11(d)(1)(ii)(A)) is met for a year under the this unit shall be deemed to be in compliance for that year with its excontemporaneous annual emission limitation. Bance with 40 CFR §72.40(b)(2), approval of the averaging plan shall intil every state and local permitting authority with jurisdiction over one included in the averaging plan has approved the plan with the same included in the averaging plan has approved the plan with the same included in the described NO _X compliance plan, this unit shall comply with an approved the described NO _X compliance plan, this unit shall comply with an approved the described NO _X compliance plan, this unit shall comply with an approved the described NO _X compliance plan, this unit shall comply with an approved the described NO _X compliance plan, this unit shall comply with an approved the described NO _X compliance plan, this unit shall comply with an approved the described NO _X compliance plan, this unit shall comply with an approved the described NO _X compliance plan, this unit shall comply with an approved the described NO _X compliance plan, this unit shall comply with an approved the described NO _X compliance plan, this unit shall comply with a approved the desc							

Appalachian Power Company (dba American Electric Power) Clinch River Plant Registration No. 10236 ORIS Code 3775 April 16, 2013 Page 6 of 6

3) Additional Requirements, Notes, Comments, and Justifications.

A. Additional Requirements:

Appalachian Power Company (dba, American Electric Power) shall submit a complete permit application that includes all of the information required under 40 CFR §§72.21 and 72.31 and includes a complete NO_X compliance plan in accordance with 40 CFR §76.9(c) at least 6 months, but no earlier than 18 months, prior to the date of expiration of the existing Phase II Acid Rain permit. EPA forms shall be used. (9 VAC 5-80-430 C.5)

B. Notes.

SO₂ allowances may be acquired from other sources in addition to those allocated by U.S. EPA. No revision to this permit is necessary in order for the owners and operators of this unit to hold additional allowances recorded in accordance with 40 CFR Part 73. The owners and operators of this unit remain obligated to hold sufficient allowances to account for SO₂ emissions from this unit in accordance with 40 CFR 72.9(c)(1). (9 VAC 5-80-420 C.1 and H.1 and 9 VAC 5-80-490 O)

C. Comments:

None

D. Justifications:

None

4) Phase II Acid Rain Permit Application.

The attached permit application is incorporated into the Phase II Acid Rain permit by reference, including the attached NOx Compliance Plan and attached NOx Averaging Plan. The owners and operators of the source shall comply with the standard requirements and special provisions set forth in the application.

(9 VAC 5-80-440 and 9 VAC 5-80-490 A.4.a and c, B, C, E, F, M, O and P)

SEPA

STEP 1

Identify the source by plant name, State, and ORIS code.

N 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		•	1 1010 11 11 11 11	
Plani Name		-	State	ORIS Code
			18-1-1-1	0775
Clinch H	iver Plant		virginia	3//3
to the street of the		性性病病 医抗病性皮肤 缺		
		and the second second	and the second second	

United States Environmental Protection Agency Acid Rain Program

OMB No. 2060-0258

Acid Rain Permit Application

For more information, see instructions and refer to 40 CFR 72.30 and 72.31

This submission is: New Revised

STEP 2

Enter the unit ID#
for every affected
unit at the affected
source in column "a."
For new units, enter the
requested information in
columns "c" and "d."

, . ,	Andrewski in the second	b	c	d
	Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)	New Units Commence Operation Date	New Units Monitor Certification Deadline
	1	Yes		
	2 2	Yes		
	.a	Yes	II.	
		Yes.		
		Yes		
	at i de la callata. Na frat Romania	Yes		
		Yes		
		Yes		
r		Yes		
		Yes		

Clinch River Plant

Plant Name (from Step 1)

STEP 3

Permit Requirements

Read the standard requirements

- (1) The designated representative of each affected source and each affected unit at the source shall:
 - (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
 - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
 - (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
 - (ii) Have an Acid Rain Permit.

Monitoring Requirements

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

- (1) The owners and operators of each source and each affected unit at the source shall:
 - (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount of another affected unit at the same source to the extent provided in 40 CFR 73.35(b)(3); not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
 - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
 - (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
 - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Acid Rain - Page 3

Clinch River Plant

Plant Name (from Step 1)

STEP 3, Cont'd.

Nitrogen Oxides Requirements The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

- (1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
- (2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
 - (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
 - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

- (1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
 - (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
 - (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
 - (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act:
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.

Clinch River Plant

Plant Name (from Step 1)

Step 3, Cont'd.

Liability, Cont'd.

- (5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
- (6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
- (2) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
- (3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law.
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act, or
- (5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification

STEP 4

Read the certification statement, sign, and date

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name: John M. McManus				·:	
Signature John MM)	Heus	Date	5/1/07		



United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258 Approval expires 11/30/2012

Phase II NO_x Compliance Plan

For more information, see instructions and refer to 40 CFR 76.9 Page 1 of 2 This submission is: New X Revised STEP 1 Clinch River VA 3775 Indicate plant name, State, and ORIS code from NADB, Plant Name if applicable State **ORIS Code** STEP 2 Identify each affected Group 1 and Group 2 boiler using the boiler ID# from NADB, if applicable. Indicate boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom. Indicate the compliance option selected for each unit. 1 2 3 ID# ID# ID# ID# ID# ID# ٧ ν ٧ Type Type Type Type Туре Type (a) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wall-fired boilers) (b) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I tangentially fired boilers) (c) EPA-approved early election plan under 40 CFR 76.8 through 12/31/07 (also indicate above emission limit specified in plan) (d) Standard annual average emission limitation of 0.46 lb/mmBtu (for Phase II dry bottom wall-fired boilers) (e) Standard annual average emission limitation of 0.40 lb/mmBtu (for Phase II tangentially fired boilers) (f) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers) (g) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers) (h) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers) (i) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers) (j) NO_x Averaging Plan (include NO_x Averaging form) (k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack) (I) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging form)

STEP 2, cont'd.	Plant Name (from	Page	2 of 2			
51L1 2, 66Htu.	1 ID# V Type	2 ID# V Type	3 ID# V Type	ID# Type	ID# Type	ID# Type
(m) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17(a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)						
(n) AEL (include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)						
(o) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing						
(p) Repowering extension plan approved or under review						

STEP 3
Read the standard
requirements and
certification, enter the
name of the designated
representative, sign &

Standard Requirements

<u>General</u>. This source is subject to the standard requirements in 40 CFR 72.9 (consistent with 40 CFR 76.8(e)(1)(i)). These requirements are listed in this source's Acid Rain Permit.

Special Provisions for Early Election Units

Nitrogen Oxides. A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO_x as provided under 40 CFR 76.8(a)(2) except as provided under 40 CFR 76.8(e)(3)(iii).

<u>Liability</u>. The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or 40 CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.

Termination. An approved early election plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of the plan takes effect. If the designated representative of the unit under an approved early election plan fails to demonstrate compliance with the applicable emissions limitation under 40 CFR 76.5 for any year during the period beginning January 1 of the first year the early election takes effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect beginning January 1 of the year after the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit under an approved early election plan may terminate the plan any year prior to 2008 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

	John M. McManu	ıs
Name		
Signature	Jahn Millelleus	12/17/2012 Date
Signature	Javen Guerreur	Date



Phase II NOx Averaging Plan

formation, see instructions and refer to 40 CFR 76.11

Page 1

This submission is: New X Revised

Page 1 of 4

STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation (ACEL) in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

			(a) Emission	(b)	(c)
Plant Name	State	ID#	Limitation	ACEL	Annual Heat Input Limit
Big Sandy	. KY	BSU1	0.46	0.46	5,183,000
Big Sandy	KY	BSU2	0.46	0.46	21,378,000
Cardinal .	ОН	1	0.68	0.68	41,432,600
Cardinal	ОН	2	0.68	0.68	38,981,200
Cardinal	ОН	3	0.46	0.46	36,818,000
Clinch River	VA	1	0.80	0.80	4,056,600
Clinch River	VA	2	0.80	0.80	4,113,800
Clinch River	VA	3	0.80	0.80	237,000
see page 3					

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate Btu-weighted annual average averaged over the units if they are emission rate for same units operated in compliance with operated in accordance with the 40 CFR 76.5, 76.6 or 76.7 proposed averaging plan ≤ 0.54 0.54 $[R_{ii}xHI_{i}]$ $(R_{Li} \times HI_i)$ HI, HI, ≤ Where, Alternative contemporaneous annual emission limitation for unit i, in Ru lb/mmBtu, as specified in column (b) of Step 1: Applicable emission limitation for unit i, in lb/mmBtu, as specified in R_{li} column (a) of Step 1; Annual heat input for unit i, in mmBtu, as specified in column (c) of HI = Number of units in the averaging plan n =

	Clinch River	NO _x Averaging - Page					
STEP 3	X This plan is effective for calendar year2013 through caler	idar vear 2017					
Mark one of the two options	unless notification to terminate the plan is given.						
and enter dates.	☐ Treat this plan as ☐ identical plans, each effective for one calendar years:,, and unless notification to plans is given.						
STEP 4	Special Provisions						
Read the special provisions and	Emission Limitations						
certification, enter the name of the designated representative, and	Each affected unit in an approved averaging plan is in compliance with the NO_x under the plan only if the following requirements are met:	Acid Rain emission limitation fo					
sign and date.	(i) For each unit, the unit's actual annual average emission rate for the calendar year, in Ib/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and (a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan, (b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7. (iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).						
	<u>Liability</u>						
	The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.						
	<u>Termination</u>						
	The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.						
	Certification						
	I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.						
	John M. McManus						
	Name	12/17/2012					
	Signature HUMMUN	Date					

Clinch River Plant Name (from Step 1)

NO_x Averaging - Page 3

(a)

(b) Alt. (c)

STEP 1 Continue the identification of units from Step 1, page 1, here.

Plant Name	State	ID#	Emission Limitation	Contemp. Emission Limitation	Annual Heat Input Limit
Conesville	OH	4	0.45	0.45	20,621,149
Conesville	ОН	5	0.40	0.40	16,355,200
Conesville	ОН	6	0.40	0.40	15,774,600
Flint Creek	AR	1	0.46	0.46	33,727,600
Gavin	OH	1	0.68	0.68	72,800,400
Gavin	OH	2	0.68	0.68	74,558,000
Glen Lyn	VA	51	0.40	0.40	92,500
Glen Lyn	VA	- 52	0.40	0.40	92,500
Glen Lyn	VA	6	0.46	0.46	413,000
H. W. Pirkey	TX	1	0.46	0.46	50,944,820
John E. Amos	wv	1	0.46	0.46	45,628,800
John E. Amos	WV	2	0.46	0.46	48,398,200
John E. Amos	wv	3	0.68	0.68	78,137,000
Kammer	wv	1	0.86	0.86	6,817,500
Kammer	wv	2	0.86	0.86	7,397,500
Kammer	wv	3	0.86	0.86	2,485,500
Kanawha River	WV	1	0.80	0.80	7,751,500
Kanawha River	wv	2	0.80	0.80	7,131,000
Mitchell	wv	1	0.50	0.50	46,424,400
Mitchell	wv	2	0.50	0.50	47,334,600
Mountaineer	wv	1	0.46	0.46	75,779,800
Muskingum River	OH	1	0.84	0.84	793,000
Muskingum River	OH	2	0.84	0.84	1,816,649
Muskingum River	ОН	3	0.86	0.86	7,420,000
Muskingum River	ОН	4 .	0.86	0.86	1,978,858
Muskingum River	ОН	5	0.68	0.68	4,350,500
Northeastern	OK	3313	0.40	0.40	30,914,400

Clinch River Plant Name (from Step 1)

NO_x Averaging - Page 4

· (a)

(b)

(c)

STEP 1 Continue the identification of units from Step 1, page 1, here.

Plant Name	State	ID#	Emission Limitation	Alt. Contemp. Emission Limitation	Annual Heat Input Limit
Northeastern	OK	3314	0.40	0.40	33,772,333
Oklaunion	TX	1	0.46	0.46	36,111,538
Philip Sporn	WV	11	0.80	0.80	864,000
Philip Sporn	wv	. 21	0.80	0.80	5,355,000
Philip Sporn	wv	31	0.80	0.80	5,841,000
Philip Sporn	wv	41	0.80	0.80	534,000
Picway	ОН	9	0.50	0.50	1,164,786
Rockport	IN	MB1	0.46	0.46	80,081,400
Rockport	IN	MB2	0.46	0.46	74,684,000
Tanners Creek	IN	U1	0.80	0.80	1,467,081
Tanners Creek	IN	U2	0.80	0.80	1,465,303
Tanners Creek	IN	U3	0.80	0.80	8,513,500
Tanners Creek	IN	U4	0.86	0.86	18,733,400
Welsh	TX	1	0.46	0.46	36,639,800
Welsh	TX	2	0.46	0.46	25,907,000
Welsh	TX	3	0.46	0.46	35,099,400
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